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GeoGCD: Geographic Gaze Contingent Display

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1. GeoGCD Demo

1.1. Introduction and Procedure

The GeoGCD serves as a testbed to assess the potential of perceptually plausible, HVS-inspired and gaze contingent geovisualizations. The GeoGCD implements several visual perceptual models (VPMs), and enables computational validation and user evaluation (Bektaş & Çöltekin, 2011; 2012; and Bektaş et al., 2015). The demo starts with a briefing about eye tracking and task description. Each participant will perform visual search tasks on aerial images with both a uniform resolution and a gaze contingent display. After each session, participants will be informed about the implications of a gaze contingent visualization compared to a uniform one.

1.2. Requirements

The authors intend to bring a workstation and a Tobii TX300 eyetracker. We expect from the conference organizers an office desk (min. 60 x 60 x 80 cm); and two chairs (one should be height adjustable and without casters).

References

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Bektaş K, Çöltekin A, Krüger J, Duchowski A T (2015) A Testbed Combining Visual Perception Models for Geographic Gaze Contingent Displays. <https://Diglib.Eg.Org/Handle/10.2312/Eurovisshort.20151127.067-071>, 67-71.